

# INJECTABLE IMPLANTS FOR TISSUE AUGMENTATION AND RESTORATION

## ABSTRACT OF THE DISCLOSURE

A method for tissue augmentation in a mammal is provided comprising injecting a polymer at a tissue site in need of augmentation and having a tissue temperature, the polymer comprising repeating peptide monomeric units selected from the group consisting of nonapeptide, pentapeptide and tetrapeptide monomeric units, wherein the monomeric units form a series of  $\beta$ -turns separated by dynamic bridging segments suspended between the  $\beta$ -turns, wherein the polymer has an inverse temperature transition  $T_i$  less than the tissue temperature, and wherein the polymer is injected as a water solution at coacervate concentration in the substantial absence of additional water. A kit containing the injectable bioelastic polymer and a syringe is also provided.